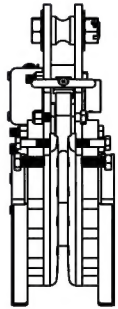
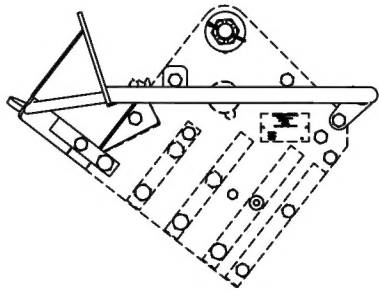
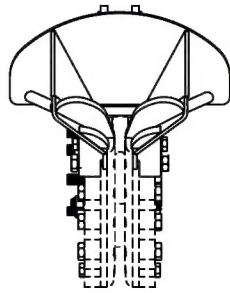


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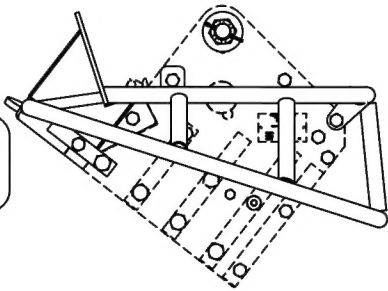
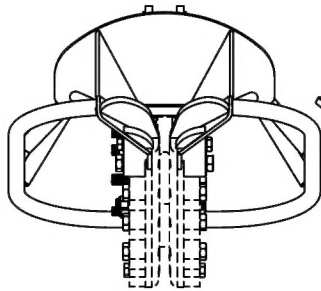
REVISIONS				
REV	DESCRIPTION	DATE	INITIAL	APPROVED
1	REMOVED 20NR FROM ASSY'S 20NR-C, 20NR-DRC, 20NR-DRCR, 20NR-DHC, 20NR-DHRC, & 20NR-DHCA. REMOVED 20NR-83 FROM ASSY'S 20NR-DHC, & 20NR-DHRC.	7/22/2014	JAG	EB



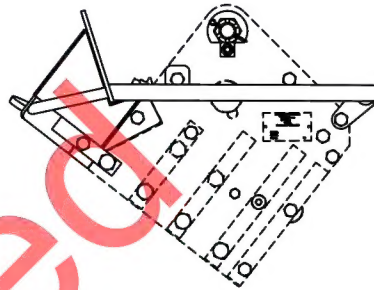
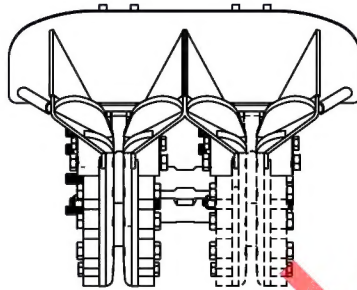
20NR-SP (WITH SIDE PLATE PROTECTORS)



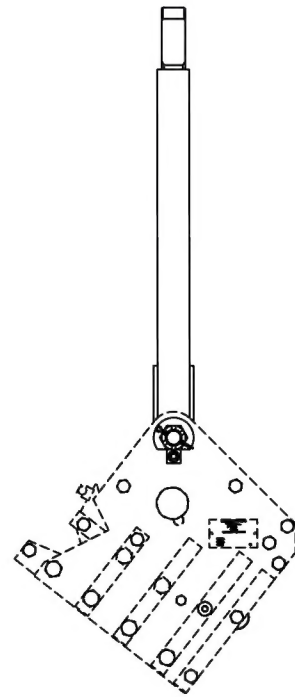
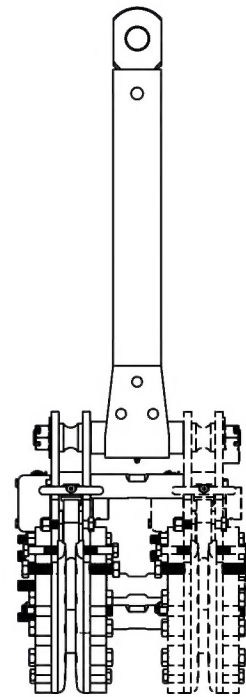
20NR-C (SINGLE RING CAGE)



20NR-DRC (DOUBLE RING CAGE)
20NR-DRCR (DOUBLE RING CAGE RUBBERIZED)



20NR-DHC (DUAL HOOK CAGE)
20NR-DHRC (D.H.C. RUBBERIZED)



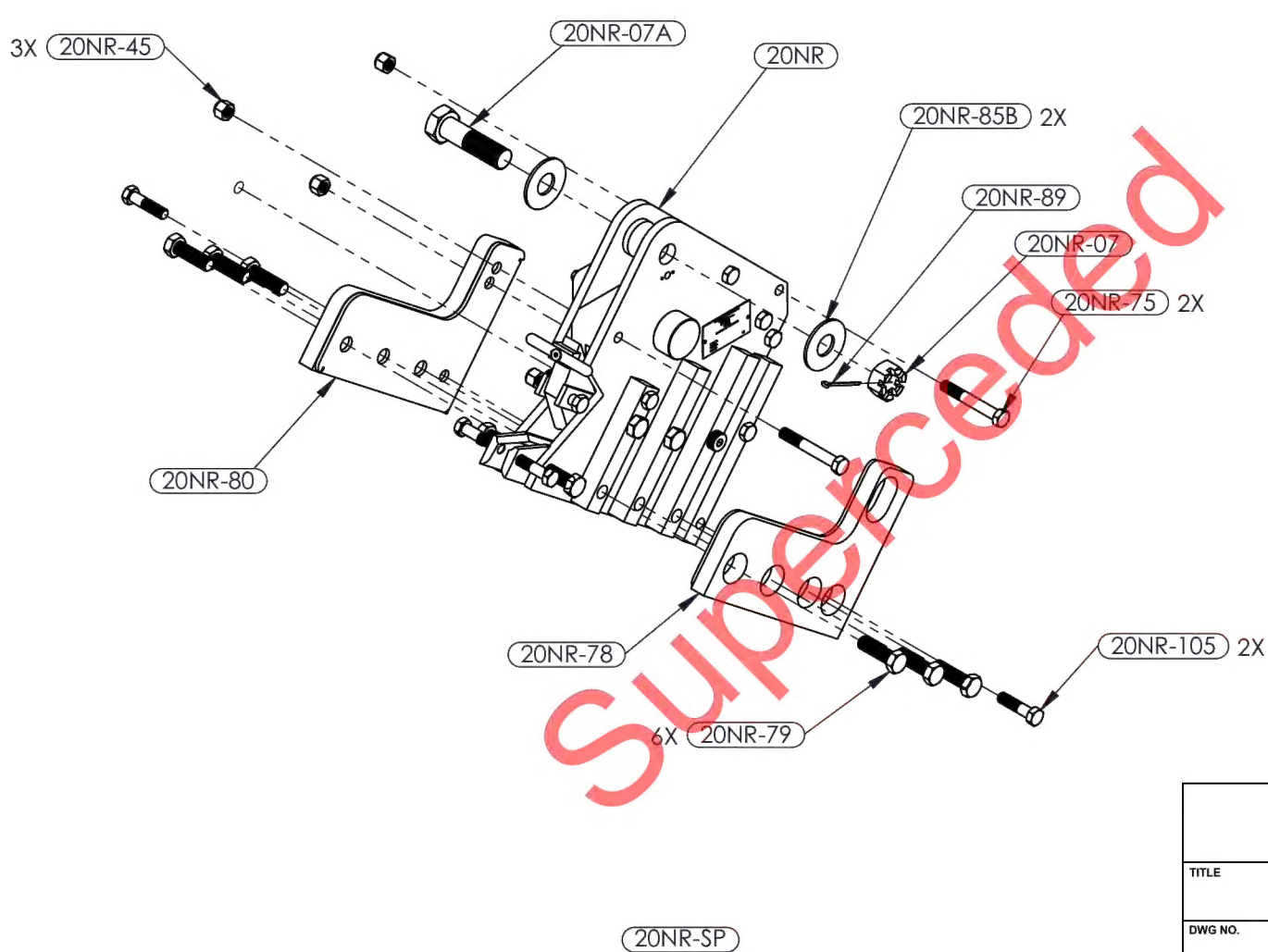
20NR-DHCA (T-BAR LONG)

ASSY QTY	ASSY QTY	B/O	Part #	20NR-DHCA /QTY.	20NR-DHRC /QTY.	20NR-DHC /QTY.	20NR-DRCR /QTY.	20NR-DRC /QTY.	20NR-C /QTY.	20NR-SP /QTY.	Description	Material	B/O INFORMATION OR SPECIFICATIONS	PG.
			20NR							1	20NR NUBBINS RECEIVER			2
			20NR-78							1	RH PROTECTOR PLATE ASSY			2
			20NR-80							1	LH PROTECTOR PLATE ASSY			2
			20NR-83A	1							T-BAR LONG			8
			20NR-84	1	1	1					SPACER DUAL CAGE 6, 1/2" HOLE	1045		6,7,8
			20NR-84A	1	1	1					SPACER DUAL CAGE 4, 1/2" HOLE	1045		6,7,8
			20NR-84B	1	1	1					SPACER DUAL CAGE 4, 3/8" HOLE	1045		6,7,8
			20NR-85	1	1	1					DRAW BAR FOR T-BAR	4340		6,7,8
			20NR-86			1					DUAL HOOK CAGE			6
			20NR-86R		1						DUAL HOOK RUBBERIZED CAGE			7
			20NR-88					1			DOUBLE RING CAGE			4
			20NR-88R				1				DOUBLE RING CAGE RUBBERIZED			5
			20NR-93	1	1	1					STOP BLOCK	A36		6,7,8
			20NR-119						1		20NR SINGLE RING CAGE			3
		B/O	20NR-07	2	2	2	1	1	1	1	LIFTING BOLT NUT	STEEL	1"-8, GRADE 5 (MCMASTER-CARR #97190A040)	2-8
			20NR-07A				1	1	1	1	LIFTING BOLT	STEEL	1"-8 X 3-5/8, GRADE 8 (MCMASTER-CARR #91257A961) MODIFIED	2,3,4,5
		B/O	20NR-12	12	12	12	6	6	6		RAIL BOLTS	STEEL	5/8-18 X 1-3/4 MCMASTER-CARR #92620A310	3-8
		B/O	20NR-45	2	2	2	3	3	3	3	NYLOCK NUT	STEEL	1/2-20 MCMASTER-CARR #97135A255	2-8
		B/O	20NR-48	4	4	4	2	2	2		RAIL BOLTS	STEEL	1/2-20 X 1-3/4 MCMASTER-CARR #92620A747	3-8
		B/O	20NR-75	4	4	4	2	2	2	2	CAGE BOLT	STEEL	1/2-20 X 3-1/2 MCMASTER-CARR #91257A752	2-8
		B/O	20NR-79							6	SIDE PLATE BOLT	STEEL	5/8-18 X 2 MCMASTER-CARR #92620A825	2
		B/O	20NR-85B	1	1	1	2	2	2	2	LIFTING BOLT WASHER	STEEL	Ø1-1/16 I.D. (MCMASTER-CARR #90108A038)	2-8
			20NR-85C	1	1	1					LIFTING WASHER WITH FLAT	STEEL	Ø1-1/16 I.D. MCMASTER-CARR #90108A038 (MODIFIED)	6,7,8
		B/O	20NR-89	2	2	2	1	1	1	1	COTTER PIN	STEEL	Ø1/8 X 2 (MCMASTER-CARR #98338A200)	2-8
		B/O	20NR-94	1	1	1					3/8 WEDGE LOCK WASHER SET	STEEL	Ø3/8 MCMASTER-CARR #91074A131	6,7,8
		B/O	20NR-95	1	1	1					3/8 FINE THREAD BOLT	STEEL	3/8-24 X 1 MCMASTER-CARR #90128A364	6,7,8
		B/O	20NR-105							2	SIDE PLATE BOLTS	STEEL	1/2-20 X 2 MCMASTER-CARR #91257A748	2
		B/O	20NR-116	2	2	2					DOWEL PIN	STEEL	Ø1/8 X 5/8 MCMASTER-CARR #98381A472	6,7,8

TITLE 20NR CAGE ASSEMBLYS		
DWG NO. 20NR-CAGES		REV 1
MAT'L UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES .XXX ± .005 FRACTIONS ± 1/32 .XX ± .01 ANGLES ± 5° .X ± .1	DRAWN BY: SMITH APPROVED: <i>D Weil</i> TREAT FINISH SPEC 1. BREAK ALL SHARP EDGES .015 x 45° OR .015R 2. DIMENSIONAL LIMITS APPLY AFTER PLATING USED ON MODEL	
SCALE 1:12	DATE 8/16/2013	SHEET 1 OF 8

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REVISIONS			
REV	DESCRIPTION	DATE	INITIAL
			APPROVED

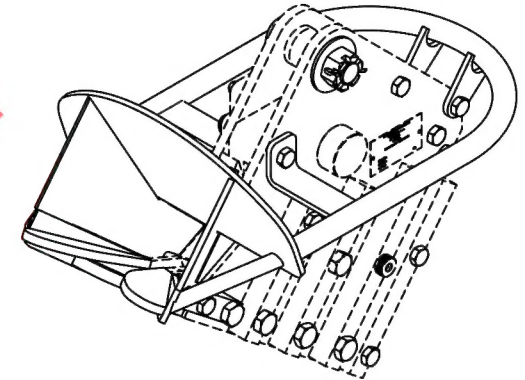
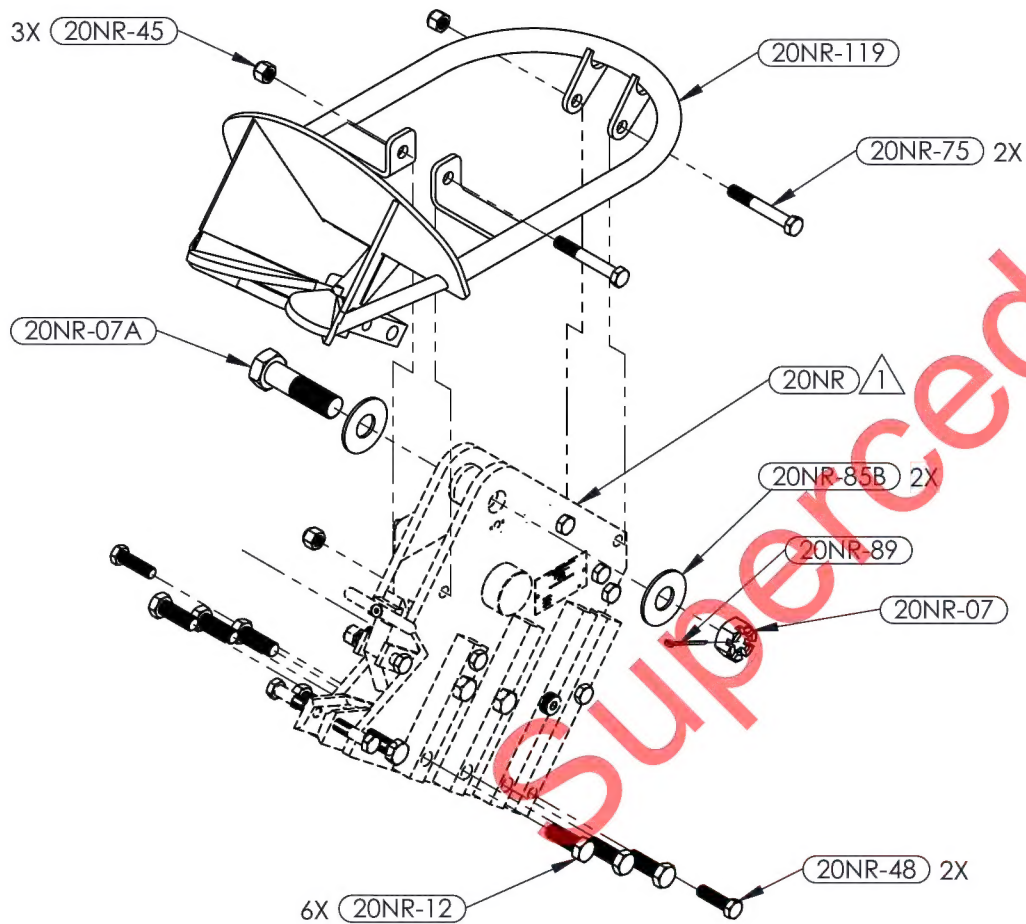


WITH SIDE PLATE PROTECTORS

DART AEROSPACE	
TITLE 20NR CAGE ASSEMBLYS	
DWG NO. 20NR-SP	REV 1
MAT'L	DRAWN BY: SMITH
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES	APPROVED <i>D Weil</i>
.XXX ± .005	HEAT
.XX ± .01	TREAT
.X ± .1	FINISH
1. BREAK ALL SHARP EDGES .015 x 45° OR .015R	SPEC
2. DIMENSIONAL LIMITS APPLY AFTER PLATING	USED ON MODEL
SCALE 1:8	DATE 8/16/2013
SHEET 2 OF 8	

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REVISIONS				
REV	DESCRIPTION	DATE	INITIAL	APPROVED
1	20NR CHANGED TO A REFERENCE.	7/22/2014	JAG	EB



NOTE:

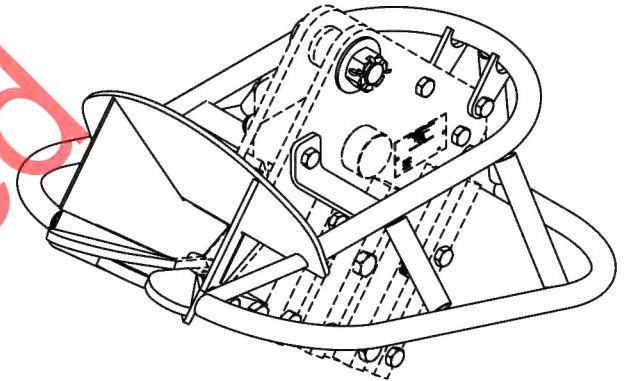
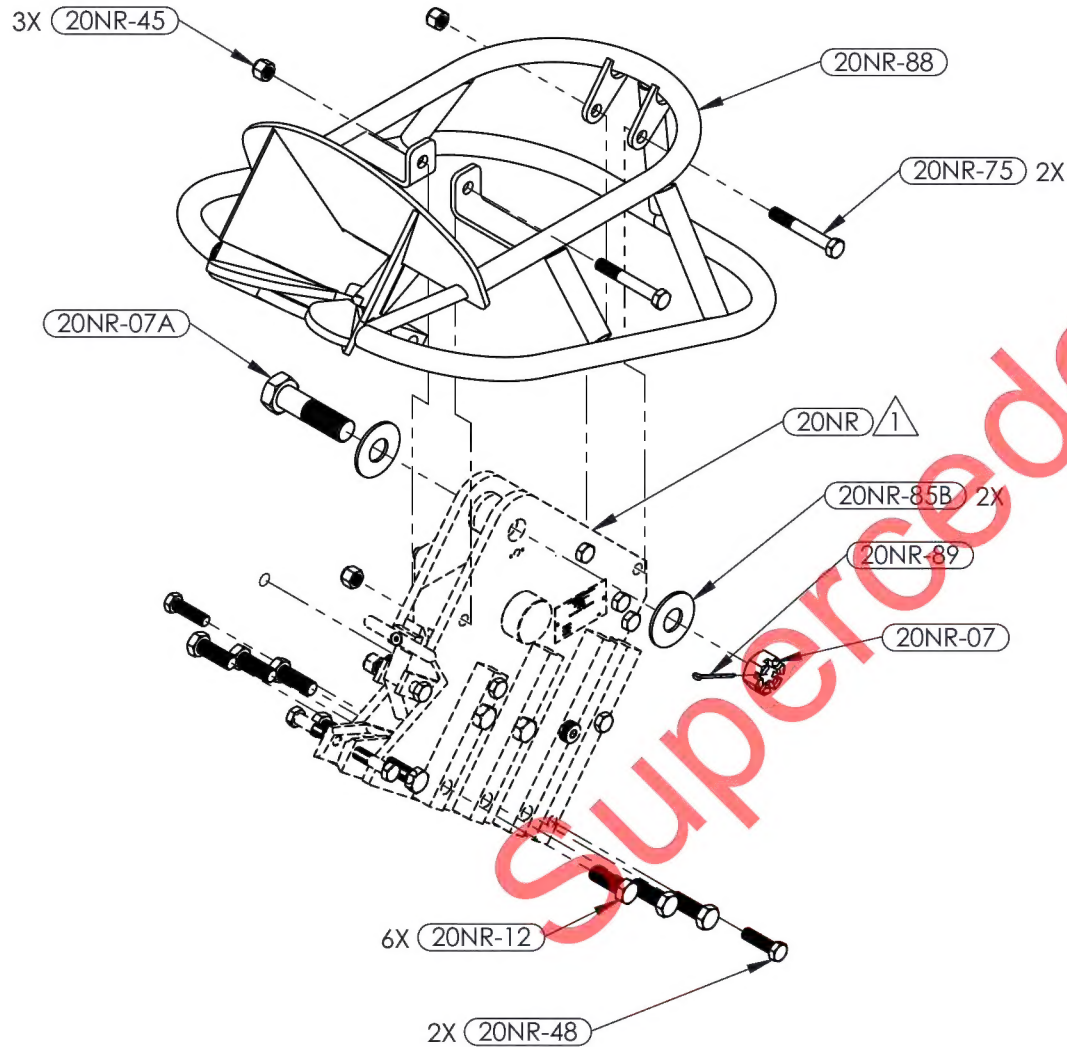
△ 1 20NR FOR REFERENCE ONLY.

20NR-C
SINGLE RING CAGE

DART AEROSPACE	
TITLE 20NR CAGE ASSEMBLYS	
DWG NO. 20NR-C	REV 1
MAT'L	DRAWN BY: SMITH
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES	APPROVED <i>D Weil</i>
.XXX ± .005	HEAT
.XX ± .01	TREAT
.X ± .1	FINISH
1. BREAK ALL SHARP EDGES .015 x 45° OR .015R	SPEC
2. DIMENSIONAL LIMITS APPLY AFTER PLATING	USED ON MODEL
SCALE 1:8	DATE 8/16/2013
SHEET 3 OF 8	

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REVISIONS				
REV	DESCRIPTION	DATE	INITIAL	APPROVED
1	20NR CHANGED TO A REFERENCE, REMOVED SIDE PROTECTORS.	7/22/2014	JAG	EB



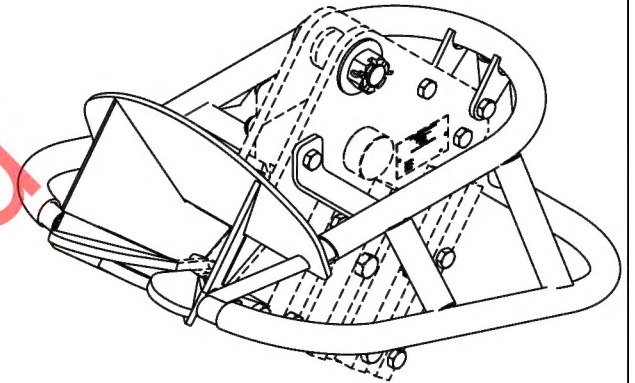
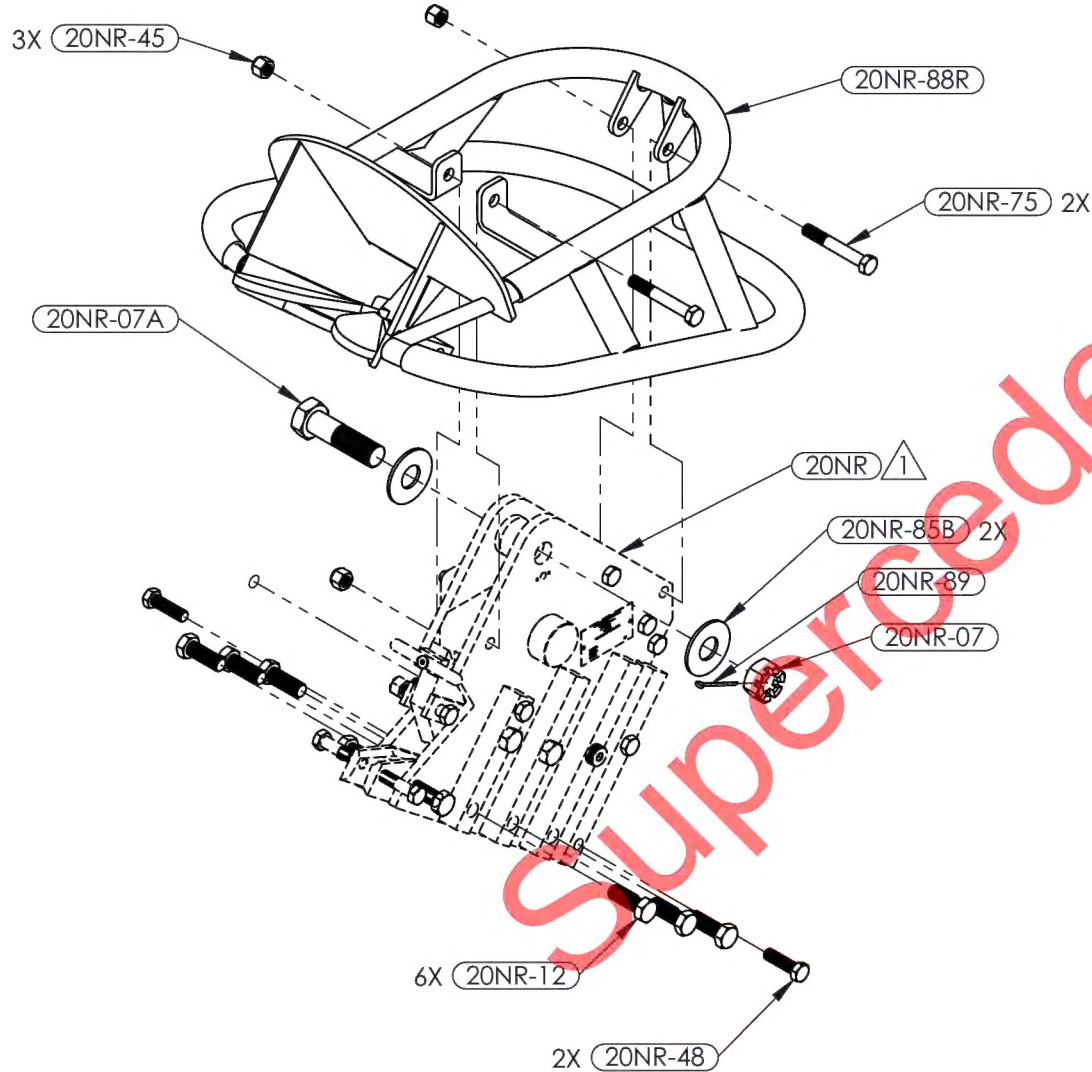
NOTE:

1 20NR FOR REFERENCE ONLY.

DART AEROSPACE	
TITLE 20NR CAGE ASSEMBLYS	
DWG NO. 20NR-DRC	REV 1
MAT'L UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES .XXX ± .005 FRACTIONS ± 1/32 .XX ± .01 ANGLES ± 5° .X ± .1	DRAWN BY: SMITH APPROVED <i>D Weil</i> HEAT TREAT FINISH SPEC
1. BREAK ALL SHARP EDGES .015 x 45° OR .015R 2. DIMENSIONAL LIMITS APPLY AFTER PLATING	
SCALE 1:8	DATE 8/16/2013
SHEET 4 OF 8	

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REVISIONS				
REV	DESCRIPTION	DATE	INITIAL	APPROVED
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NOTE:

1 20NR FOR REFERENCE ONLY.

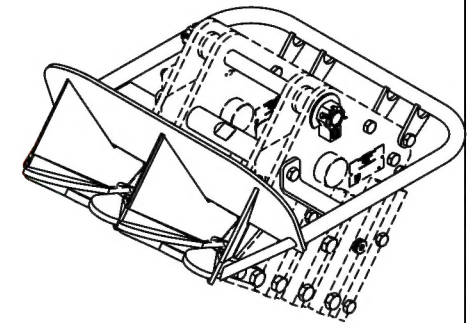
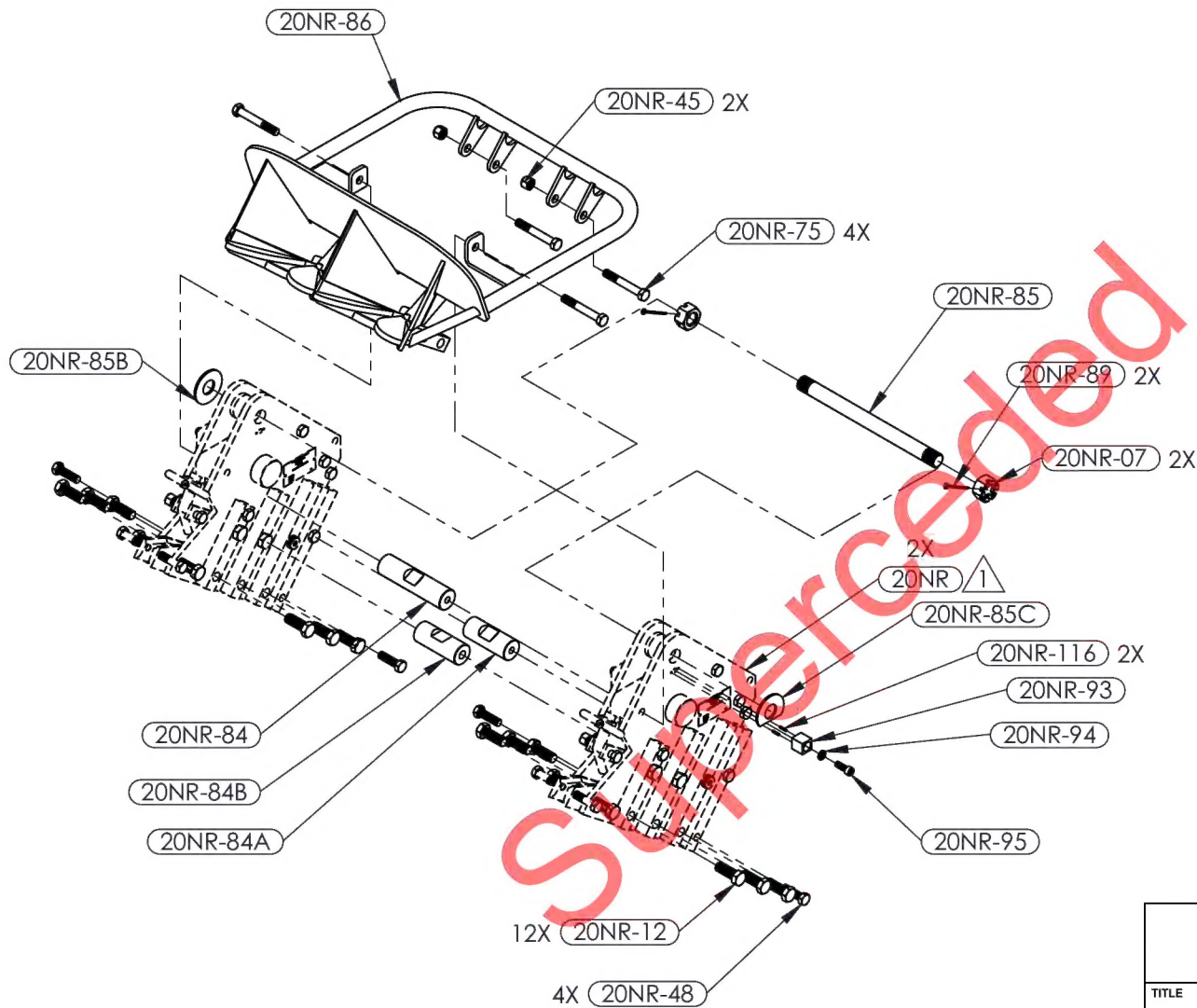
20NR-DRCR

DOUBLE RING CAGE RUBBERIZED

DART AEROSPACE	
TITLE 20NR CAGE ASSEMBLYS	
DWG NO. 20NR-DRCR	REV 1
MAT'L UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES .XXX ± .005 FRACTIONS ± 1/32 .XX ± .01 ANGLES ± 5° .X ± .1	DRAWN BY: SMITH APPROVED <i>D Weil</i> HEAT TREAT FINISH SPEC
1. BREAK ALL SHARP EDGES .015 x 45° OR .015R 2. DIMENSIONAL LIMITS APPLY AFTER PLATING	
SCALE 1:8	DATE 8/16/2013
SHEET 5 OF 8	

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REVISIONS				
REV	DESCRIPTION	DATE	INITIAL	APPROVED
1	20NR CHANGED TO A REFERENCE, REMOVED T-BAR & SIDE PROTECTORS.	7/22/2014	JAG	EB



NOTE:

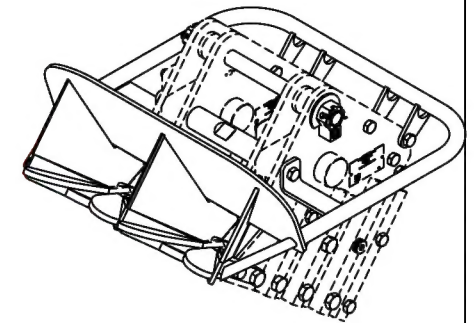
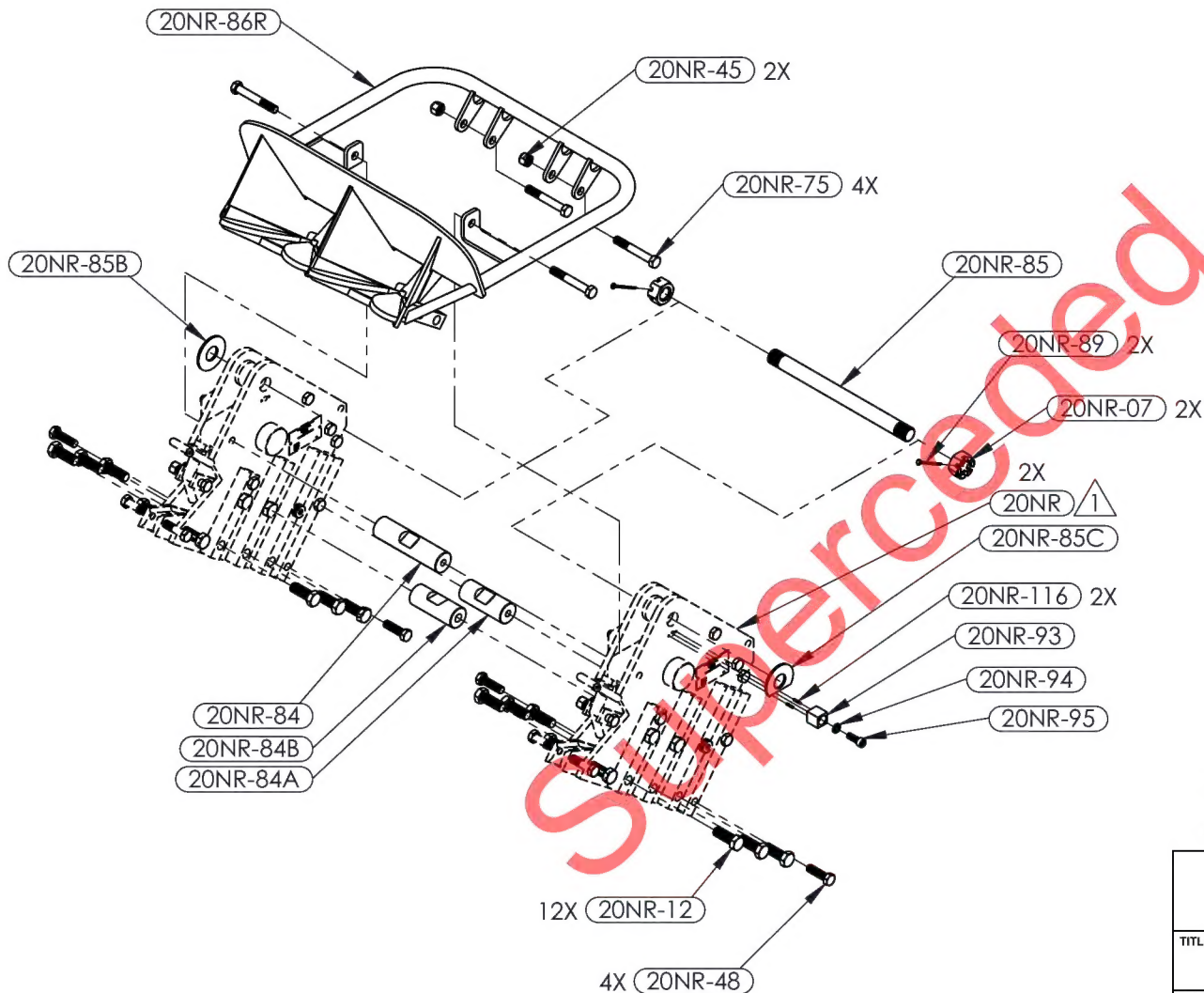
1 20NR FOR REFERENCE ONLY.

20NR-DHC
DUAL HOOK CAGE

DART AEROSPACE	
TITLE 20NR CAGE ASSEMBLYS	
DWG NO. 20NR-DHC	REV 1
MAT'L UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES .XXX ± .005 FRACTIONS ± 1/32 .XX ± .01 ANGLES ± 5° .X ± .1	DRAWN BY: SMITH APPROVED <i>D Weil</i> HEAT TREAT FINISH SPEC
1. BREAK ALL SHARP EDGES .015 x 45° OR .015R 2. DIMENSIONAL LIMITS APPLY AFTER PLATING	
SCALE 1:12	DATE 8/16/2013
SHEET 6 OF 8	

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REVISIONS				
REV	DESCRIPTION	DATE	INITIAL	APPROVED
1	20NR CHANGED TO A REFERENCE, REMOVED T-BAR & SIDE PROTECTORS.	7/22/2014	JAG	EB



NOTE:

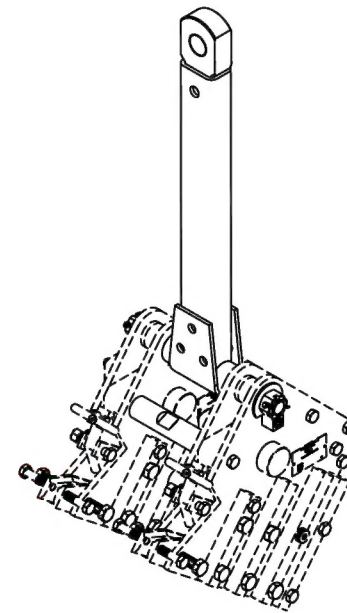
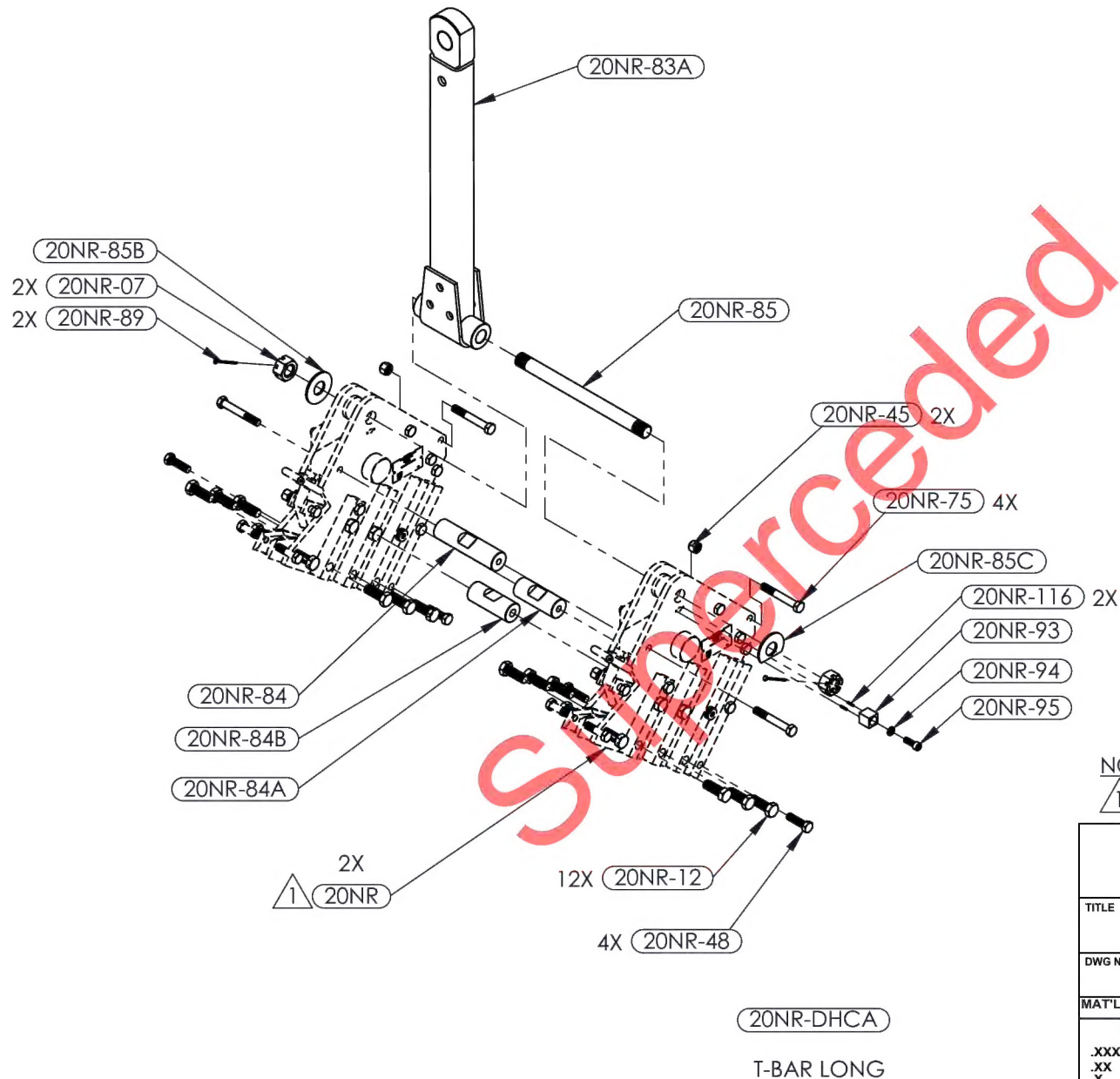
1 20NR FOR REFERENCE ONLY.

20NR-DHRC
D.H.C. RUBBERIZED

DART AEROSPACE	
TITLE 20NR CAGE ASSEMBLYS	
DWG NO. 20NR-DHRC	REV 1
MAT'L UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES .XXX ± .005 FRACTIONS ± 1/32 .XX ± .01 ANGLES ± 5° .X ± .1	DRAWN BY: SMITH APPROVED <i>D Weil</i> HEAT TREAT FINISH SPEC USED ON MODEL
1. BREAK ALL SHARP EDGES .015 x 45° OR .015R 2. DIMENSIONAL LIMITS APPLY AFTER PLATING	
SCALE 1:12	DATE 8/16/2013
SHEET 7 OF 8	

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REVISIONS				
REV	DESCRIPTION	DATE	INITIAL	APPROVED
1	20NR CHANGED TO A REFERENCE.	7/22/2014	JAG	EB



NOTE:

1 20NR FOR REFERENCE ONLY.

DART AEROSPACE	
TITLE 20NR CAGE ASSEMBLYS	
DWG NO. 20NR-DHCA	REV 1
MAT'L	DRAWN BY: SMITH
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES	APPROVED <i>D Weil</i>
.XXX ± .005	HEAT
.XX ± .01	TREAT
.X ± .1	FINISH
1. BREAK ALL SHARP EDGES .015 x 45° OR .015R	SPEC
2. DIMENSIONAL LIMITS APPLY AFTER PLATING	USED ON MODEL
SCALE 1:12	DATE 8/16/2013
SHEET 8 OF 8	